

## ABSTRACT OF THE DISCLOSURE

INS. A4

The present invention discloses an internet address system formed by introducing E.164 number system of the ITU-  
5 T or a zip code system to IPv6 address system, and a hierarchical routing method using the same. Thus, a user can easily find an IPv6 address of a user terminal by his/her telephone number. It is also possible to assign the IPv6 addresses relating to about twenty million telephone numbers  
10 in the country. The telephone numbers can be well linked to the IPv6 addresses, so that an internet provider can easily design and assign the IPv6 addresses. In addition, a hierarchical routing process is carried out by using the E.164 number system, thereby reducing a routing time and  
15 improving a routing speed. Moreover, it is easy to find out the internet address of the user terminal by the subscriber address. The subscriber address can also be found out by the internet address of the subscriber. The IPv6 addresses and zip codes are well linked by applying the zip codes of the  
20 respective countries to the IPv6 address system, thereby efficiently using the information for network management and administration. Furthermore, the hierarchical routing method is provided in the routing process of the above-described structure, which improves routing efficiency.